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L1 and lsgg	1

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Search History

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<i>DB=USPT; PLUR=YES; OP=AND</i>			
<u>L2</u>	L1 and lsgg	1	<u>L2</u>
<u>L1</u>	haemophilus	4105	<u>L1</u>

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<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
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DB=USPT; PLUR=YES; OP=AND

<u>L3</u>	L1 and lsg	12	<u>L3</u>
<u>L2</u>	L1 and lsgg	1	<u>L2</u>
<u>L1</u>	haemophilus	4105	<u>L1</u>

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
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DB=USPT; PLUR=YES; OP=AND

<u>L6</u>	L4 and biofilm adj gene?	0	<u>L6</u>
<u>L5</u>	L4 and biofilm adj gene?	0	<u>L5</u>
<u>L4</u>	l1 and biofilm	66	<u>L4</u>
<u>L3</u>	L1 and lsg	12	<u>L3</u>
<u>L2</u>	L1 and lsgg	1	<u>L2</u>
<u>L1</u>	haemophilus	4105	<u>L1</u>

DB=USPT;

PLUR=YES; OP=AND

<u>L6</u>	L4 and biofilm adj gene?	0	<u>L6</u>
<u>L5</u>	L4 and biofilm adj gene?	0	<u>L5</u>
<u>L4</u>	l1 and biofilm	66	<u>L4</u>
<u>L3</u>	L1 and lsg	12	<u>L3</u>
<u>L2</u>	L1 and lsgg	1	<u>L2</u>
<u>L1</u>	haemophilus	4105	<u>L1</u>

END OF SEARCH HISTORY

L2: Entry 1 of 1

File: USPT

Jun 1, 2004

US-PAT-NO: 6743607

DOCUMENT-IDENTIFIER: US 6743607 B2

** See image for Certificate of Correction **

TITLE: Production of complex carbohydrates

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Apicella; Michael A.	Solon	IA		
Gibson; Bradford W.	Berkeley	CA		
Phillips; Nancy J.	Oakland	CA		

US-CL-CURRENT: 435/101; 424/249.1, 424/256.1, 424/257.1, 424/258.1,
435/252.3, 435/252.33

CLAIMS:

What is claimed is:

1. A transformed Salmonella bacterium for use as a chimeric carbohydrate production cell, wherein the bacterium comprises: (a) a lipooligosaccharide (LOS) or lipopolysaccharide (LPS) comprising a core region containing a terminal heptose; (b) a DNA sequence comprising an rfe gene; and (c) an isolated DNA sequence comprising a lipooligosaccharide-synthesis gene G (lsgG) from Haemophilus influenzae, wherein lsgG encodes LsgG, and wherein the rfe is regulated by LsgG such that a H. influenzae-specific Los is synthesized by the addition of an acceptor molecule to the terminal heptose.
2. The bacterium of claim 1, which is Salmonella minnesota.
3. The bacterium claim 1, which has terminal heptose on a kdo core.
4. The bacterium of claim 1, wherein the acceptor molecule is N-acetyl glucosamine.
5. The bacterium of claim 1, wherein the LOS or LPS is an Haemophilus influenzae, Neisseria spp. or Salmonella spp.-specific LOS or LPS.
6. A process for producing a complex carbohydrate, which comprises the steps of: (a) inoculating production cells which are bacteria according to claim 1 into a culture medium capable of supporting the growth of said production cells; (b) allowing the growth of said production cells; and (c) recovering the complex carbohydrate from the culture medium.
7. The process of claim 6, which comprises the steps of extracting chimeric lipoligosaccharide or lipopolysaccharide from the cultured cells, hydrolysing the extracted lipooligosaccharide or lipopolysaccharide, and recovering the resulting oligosaccharide or polysaccharide.

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